

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-321248
(43)Date of publication of application : 04.12.1998

(51)Int. CI. H01M 8/06
H01M 8/04

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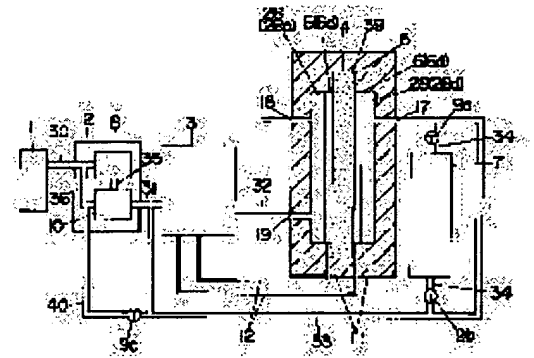
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(54) /FUEL CELL-BASED ELECTRIC POWER GENERATION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a fuel cell-based electric power generation system with high fuel utilization coefficient.

SOLUTION: This fuel cell based electric power generation system is composed of a raw fuel supplying apparatus 1, a fuel reforming apparatus 2 to produce a reformed gas containing hydrogen from the raw fuel supplied from the raw fuel supplying apparatus 1, and fuel cells 3 to generate electric power while using the hydrogen-containing reformed gas as power generation fuel supplied from the fuel reforming apparatus 2. A hydrogen separator 4 to separate non-reacted reformed gas discharged out of the fuel cells 3 to hydrogen gas and other gases is further installed. The separated hydrogen gas separated by the hydrogen separator 4 is turned back to the fuel cells 3 as the power generation fuel. Consequently, the utilization coefficient of hydrogen gas in the reformed gas for generating electric power is improved and hydrogen gas can be used without being wasted.



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[Date of request for examination]
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[Kind of final disposal of application
other than the examiner's decision of
rejection or application converted
registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

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